



# HIGH SPEED BELT SANDER

MODEL NO: CAT40B

PART NO: 3110440

## OPERATING & MAINTENANCE INSTRUCTIONS



GC0814

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## INTRODUCTION

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Thank you for purchasing this CLARKE Air Sander.

The CAT40B Sander is ideal for use in garages and workshops. The narrow belt and adjustable handle allow access in awkward places.

Before attempting to use this product, please read this manual thoroughly and follow the instructions carefully. In doing so you will ensure the safety of yourself and that of others around you, and you can look forward to your purchase giving you long and satisfactory service.

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## GUARANTEE

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This product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt which will be required as proof of purchase.

This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended.

Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission. This guarantee does not effect your statutory rights.

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# GENERAL SAFETY RULES

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CAUTION: FAILURE TO FOLLOW THESE PRECAUTIONS COULD RESULT IN PERSONAL INJURY, AND/OR DAMAGE TO PROPERTY.

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## WORK ENVIRONMENT

1. Keep the work area clean and tidy.
2. Dress appropriately - Do not wear loose clothing or jewellery. Tie long hair out of the way.
3. Keep children and visitors away - Do not let children handle the tool.
4. Do not operate the sander where there are flammable liquids or gases.

## USE OF POWER TOOLS

1. Stay alert and use common sense - do not operate the tool when you are tired or under the influence of alcohol, drugs or medication.
2. Always wear eye protectors when using the sander. Eye protectors must provide protection from flying particles from the front and the side. Ear protectors should also be worn.
3. Do not overreach - Keep proper footing and balance at all times.
4. Never use oxygen, CO<sup>2</sup>, combustible gasses or any type of bottled gas as a source of power for this tool.
5. Do not connect the air supply hose with your finger on the trigger.
6. Do not exceed the maximum pressure for the tool of 90 psi / 6.2 bar.
7. Check hoses for leaks or worn condition before use, and ensure that all connections are secure.
8. Keep the air supply hose away from heat, oil and sharp edges.
9. Do not use the tool for any purpose than that described in this manual.
10. Do not fit the tool to any stand or clamping device that may damage it.
11. Do not carry out any alterations or modifications to the tool.
12. Always disconnect from the air supply when:
  - Performing any maintenance
  - The tool is not in use.
  - The tool will be left unattended.

- Moving to another work area.
  - Passing the tool to another person.
13. Never use the tool if it is defective or operating abnormally.
  14. This tool should be serviced at regular intervals by qualified personnel.
  15. Avoid damaging the tool by applying excessive force of any kind.
  16. Always maintain the tool with care. Keep it clean for the best and safest performance.
  17. Quick change couplings should not be located at the tool. They add weight and could fail due to vibration.
  18. DO NOT force or misuse the tool. It will do a better and safer job at the rate for which it was designed.
  19. Do not remove any labels. Damaged labels should be replaced.
  20. This tool vibrates with use. Vibration may be harmful to your hands or arms. Stop using the tool if discomfort, a tingling feeling or pain occurs. Seek medical advice before resuming use.

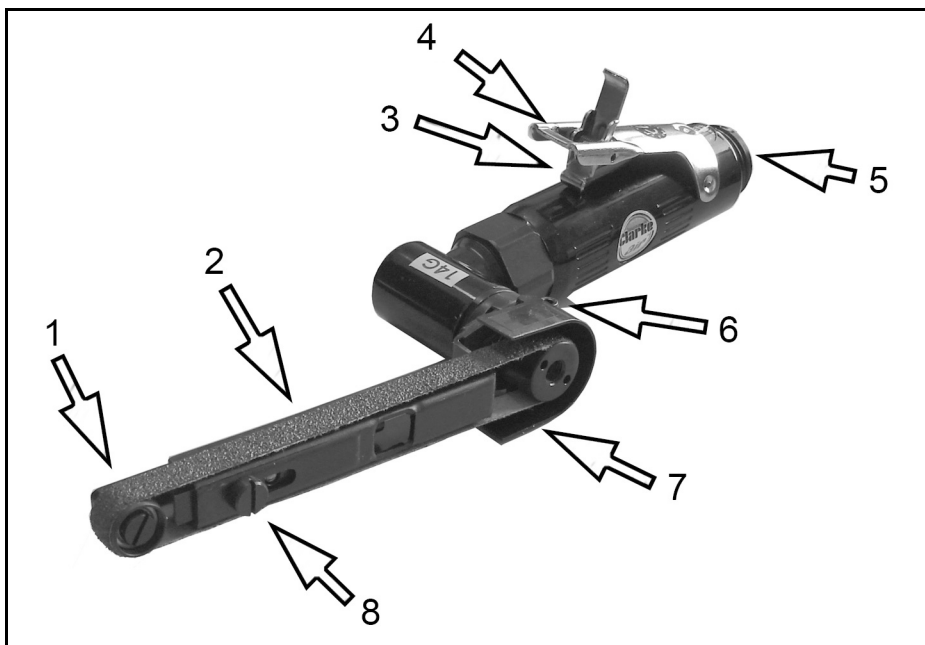
## **SANDER-SPECIFIC SAFETY RULES**

1. Inspect the sanding belt before use. Do not use if frayed.
2. Avoid contact with the moving sanding belt and wear suitable gloves to protect the hands.
3. Never run the tool unless the abrasive belt is applied to the workpiece.
4. Beware of potentially explosive atmospheres being caused by dust / fumes resulting from sanding and used dust extraction systems where possible.
5. Always wear a face mask when using the sander as protection from airborne particles of sanded material. Avoid disturbing existing dust and minimise the scattering of dust in the workplace environment. Take steps to control the dust at the point of emission.

## **TRANSPORT & STORAGE**

1. Never carry the tool by the air hose.
2. Never carry the tool with your finger on the trigger.
3. When not in use the tool must be disconnected from the air supply and stored in a dry place out of the reach of children (preferably in a locked cabinet).
4. Avoid storing the tool where the temperature is below 0°C.

## OVERVIEW



NO	DESCRIPTION	NO	DESCRIPTION
1	Idler Pulley	5	Airline Connector
2	Abrasive Belt	6	Angle Adjuster
3	Throttle Lever Lock	7	Dust Guard
4	Throttle Lever	8	Tension Screw

When unpacking the tool, any damage or deficiency should be reported to your CLARKE dealer immediately. The carton contains:

- Sander
- 80 and 100 grit sanding belts
- Allen (hex) key

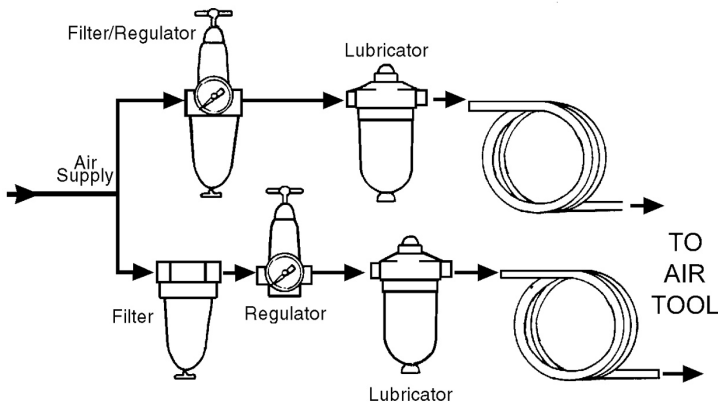
Your sander has been designed to give long and trouble free service. If, however, having followed the instructions in this booklet carefully, you encounter problems, take the unit to your local CLARKE dealer.

# COMPRESSED AIR REQUIREMENTS



**WARNING: COMPRESSED AIR CAN BE DANGEROUS. ENSURE THAT YOU ARE FAMILIAR WITH ALL PRECAUTIONS RELATING TO THE USE OF COMPRESSORS AND COMPRESSED AIR SUPPLY.**

- Use only clean, dry, regulated compressed air as a power source.
- Air compressors used with the tool must comply with the appropriate European Community Safety Directives.
- A build-up of moisture or oil in the air compressor will accelerate wear and corrosion in the tool. Ensure any moisture is drained from the compressor daily and the inlet filter is kept clean.
- If an unusually long air hose is required, (over 8 metres), the line pressure or the hose inside diameter may need to be increased.
- The air hose must be rated at least 150% of the maximum operating pressure of the tool.



- A typical air line layout is shown above. If an automatic in-line filter/regulator is used, it will keep the tool in good condition, but should be regularly checked and topped up with oil. Clarke airline oil should be used, and the lubricator adjusted to approx 2 drops per minute.
- For optimum performance it is recommended that a 3/8" ID hose is used.
- Never exceed the maximum operating pressure for the tool. It is recommended that air pressure to this tool does not exceed 90 psi at the tool when running. Higher pressures and dirty air will shorten the life of the tool due to faster wear and is a possible safety hazard.

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## BEFORE USE

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### CONNECTING THE AIR SUPPLY

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**WARNING: COMPRESSED AIR CAN BE DANGEROUS. ENSURE THAT YOU ARE FAMILIAR WITH ALL PRECAUTIONS RELATING TO THE USE OF AIR COMPRESSORS AND COMPRESSED AIR SUPPLY.**

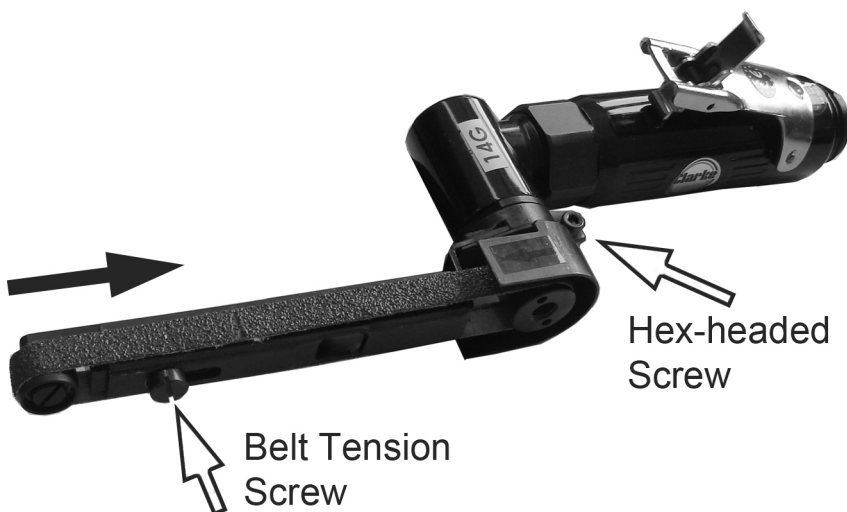
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1. Pour 2-3 drops of CLARKE airline oil into the air inlet. This should be done regardless of whether or not a lubricated air supply is to be used.
2. Connect a suitable hose to the tool as shown using the airline connector supplied with the tool.
3. If required, connect an in-line mini oiler to the tool.
  - A mini oiler helps to prolong the life of the air tool. Remove the oil fill screw from the side of the mini oiler and fill with air-line oil available from your CLARKE dealer. Replace the screw before using the tool.
4. If a mini-oiler is not being used, run a few drops of oil through the tool before use. It can be entered through the air inlet or via the hose at the nearest connection to the air supply.
5. Connect the other end of the hose to the compressor.
6. Turn on the air supply and check for air leaks. Rectify any found before proceeding. PTFE tape may be useful for sealing threaded connections.
7. Your air tool is now ready for use.
  - You can fit a whip hose with a quick fit coupling if required (available from your Clarke dealer.)



### INSTALLING THE BELT

1. To install or replace sanding belt, slacken the tensioning screw and push the idler pulley assembly towards the handle against the tension of the spring, enabling the belt to be removed. Replace the belt and re-tightening the screw.



- The belt should be correctly tracked.
2. To adjust the handle position, slacken the hex headed screw, rotate the handle to the required position, then secure by re-tightening the hex screw.
  3. Connect to the airline and turn the air on.
- ***Only use sanding belts designed for use with this type of sander.***

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## OPERATING

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1. Squeeze the trigger against the body of the tool to start the sander and control the speed. Evaluate the speed and adjust to suit.
2. Ensure your fingers are clear of the sanding belt. Allow the motor to reach max speed before offering the belt to the workpiece.
3. To begin work, rest the belt on the workpiece and start the sander.
  - Let the tool do the work. The actual weight of the machine is normally sufficient for efficient sanding. Do not put additional pressure on the machine, which would only slow down the speed of the belt, reducing efficiency and placing an additional burden on the motor.
4. Take care to keep the sander moving around at all times. Avoid dwelling in one place for more than a moment.
5. Release the trigger to stop the tool.



6. When finished sanding, release the throttle lever and allow the motor to stop before carefully putting the tool down.

## **DISCONNECTING THE AIR SUPPLY**

1. Do not disconnect the air supply hose until the compressor has been shut down and the compressed air released.
2. Refer to the compressor instruction manual for the procedure to shut down and vent the compressed air.
3. Once the pressure has been released, disconnect the air supply hose from the air tool.

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## **MAINTENANCE**

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**WARNING: MAKE SURE THAT THE AIR TOOL IS DISCONNECTED FROM THE AIR SUPPLY BEFORE STARTING ANY CLEANING OR MAINTENANCE PROCEDURES.**

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### **DAILY**

1. Before use, drain water from the airline filter and compressor.
2. Pour a few drops of Clarke air-line oil, into the tool air inlet. This should be carried out regardless of whether or not an in-line mini oiler is used. If an in-line mini oiler is not used, this procedure should be repeated after every two to three hours of use.
3. Check the air inlet screen filter for blockage and clean if necessary.

### **CLEANING**

1. Keep the body of the tool clean and free from debris.
2. Grit or gum deposits in the tool may also reduce efficiency. This condition can be corrected by cleaning the air strainer and flushing out the tool with gum solvent oil, or failing this, the tool should be disassembled, thoroughly cleaned, dried and reassembled. This is better left to your Clarke dealer.
3. After extensive use, flush out the mechanism with gum solvent oil or an equal mixture of Clarke air-line oil and paraffin. Allow to dry before use.
4. If the tool runs erratically or becomes inefficient, and the air supply is of good quality, it may be necessary to dismantle the air motor and replace worn or damaged parts. You may prefer to take the tool to your Clarke dealer if internal maintenance is required.

## PERFORMANCE

Please note that factors other than the tool may effect its operation and efficiency such as reduced compressor output, excessive drain on the airline, moisture or restrictions in the air-line, or the use of connectors of improper size or poor condition which will reduce air supply.

\*\*Clarke Air Line Oil (part no. 3050825) is available from your Clarke dealer.

Your Clarke air tool has been designed to give long and trouble free service. If, however, having followed the instructions in this booklet carefully, you encounter problems, take the unit to your local Clarke dealer.

## STORAGE

When not in use, disconnect from air supply, clean & store in a safe, dry place. If the tool is to be stored, or is idle for longer than 24 hours, run a few drops of Clarke air line oil into the air inlet, and run the tool for 5 seconds in order to lubricate the internal parts.

## ACCESSORIES

A wide range of accessories is available including filter/regulators, lubricators, high-pressure hoses (5 to 50 metres) etc. Contact your Clarke dealer for further information.

## ABRASIVE BELTS

Replacement abrasive belts are available from your CLARKE dealer:

CAT57 - 2x80 grit /2 x 100 grit  
(pack of 4) - 10 x 330mm

Part no. 3110507

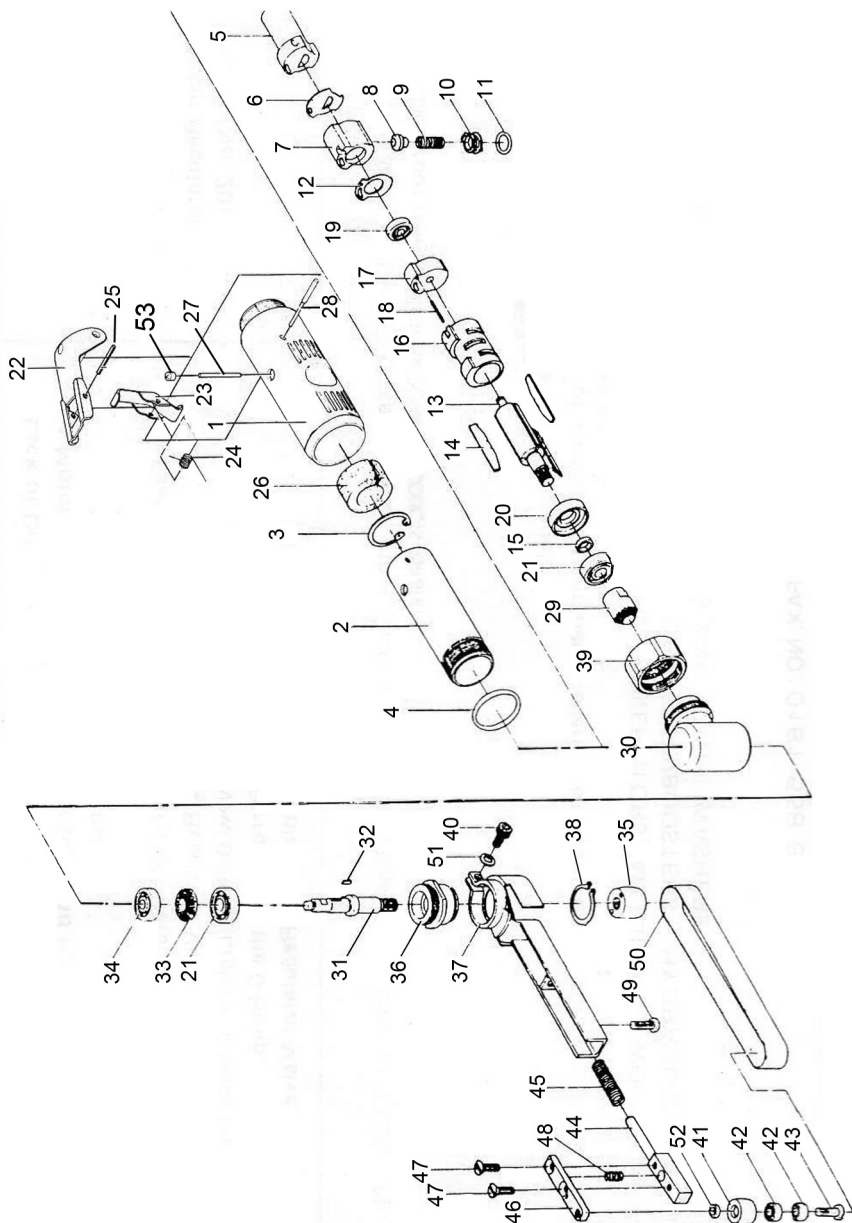
## TROUBLESHOOTING

SYMPTOM	PROBLEM	SOLUTION
Tool runs at normal speed but slows down under any load.	<ol style="list-style-type: none"> <li>1. Motor parts worn.</li> <li>2. Worn or sticking mechanism due to lack of lubricant.</li> </ol>	<ol style="list-style-type: none"> <li>1. Return to Clarke dealer for repair.</li> <li>2. Drip air tool lubricating oil into air inlet. Allow oil to soak moving parts before using.</li> </ol>
Tool runs slowly. Air flows weakly from exhaust.	<ol style="list-style-type: none"> <li>1. Motor parts jammed with gum/dirt.</li> <li>2. Air-line regulator in closed position.</li> <li>3. General airflow blocked by dirt.</li> </ol>	<ol style="list-style-type: none"> <li>1. Examine inlet air filter for blockage. Drip a few drops of air tool lubricating oil into air inlet.</li> <li>2. Adjust in-line regulator to open position.</li> <li>3. Operate tool in short bursts.</li> </ol>
Tool will not run. Air flows freely from exhaust.	<ol style="list-style-type: none"> <li>1. Motor vanes stuck due to buildup of foreign material.</li> </ol>	<ol style="list-style-type: none"> <li>1. Disconnect air supply and rotate tool assembly manually.</li> <li>2. Try operating tool in short bursts.</li> <li>3. Tap motor housing gently with a rubber mallet.</li> <li>4. Drip a few drops of air tool lubricating oil into air inlet to soak moving parts.</li> </ol>
Tool will not shut off.	<ol style="list-style-type: none"> <li>1. Throttle O-rings damaged or ill-fitting in seat.</li> </ol>	<ol style="list-style-type: none"> <li>1. Return to Clarke dealer for repair.</li> </ol>

## PARTS LIST

No	Part No	Description	No	Part No	Description
1	DG-14001	Exhaust Deflector	30	ADG-14034	Arbor Casing
2	DG-14003	Motor Housing	31	BS-10035	Arbor
3	IRTW-026	Circlip	32	K-030306	Key
4	DG-14005	O-Ring	33	ADG-14037	Bevel Gear
5	DG-14006	Inlet	34	BB-06262	Ball Bearing
6	DG-14008	Inlet Gasket	35	BS-10040	Roller (Large)
7	DG-14009	Throttlevalve housing	36	BS-10041	Bearing Support
8	DG-14010	Throttle Valve	37	BS-14042	Frame
9	DG-14011	Throttle Valve Spring	38	STW-022	Circlip
10	DG-14012	Throttle Valve Housing Plug	39	AR-14029	Clamp Nut
11	ORP-0100	O-Ring	40	B2-0412A	Hex Skt Hd Cap Bolt
12	DG-14014	End Plate Gasket	41	BS-10046	Roller (small)
13	DG-14015	Rotor	42	BB-06952	Ball Bearing (2)
14	DG-14016	Rotor Blades	43	BS-10048	Idler Shaft
15	DG-14017	Spacer	44	BS-10A49	Support
16	DG-14018	Cylinder	45	BS-10050	Spring
17	DG-14019	Rear End Plate	46	BS-10A51	Adjusting Plate
18	SP-25180	Spring Pin	47	S2-4014A	CSK Screw (2)
19	BB-06252	Ball Bearing	48	BS-10A53	Spring
20	DG-14024	Front End Plate	49	BS-10A54	Fixing Screw
21	BB-06082	Ball Bearing	50	BS-10052	Sanding Belt (10x330)
22	DG-14026	Throttle Lever	51	SW2-040A	Spring Washer
23	DG-14027	Throttle Lever Lock	52	BS-10054	Washer
24	DG-14028	Spring (Lever Lock)	53	DG-14045	Plunge Cap
25	SP-25220	Spring Pin		BS-10055	Hex Wrench
26	DG-14030	Muffler Felt		DG-14045	Plunge Cap
27	DG-14031	Throttle Plunger		BS-10K01	Throttle Lever Kit
28	DG-14032	Throttle Lever Pin		BS-10K02	Throttle Valve Kit
29	ADG14033	Bevel Pinion		BS-10K03	Bevel Gear Kit

# PARTS DIAGRAM



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## SPECIFICATION

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Model Number	CAT40B
Part Number	3110440
Min. Hose Size (ID)	1/4" BSP
Max Operating Pressure	90 psi (6.2 bar)
Air Consumption	4 cfm (nominal)
Belt Speed	1200 m/min @ 90psi
Air Inlet Size	1/4" BSP
Sound Pressure Level (LpA dB)	93.8 dB(A)
Vibration Levels	1.43 m/s <sup>2</sup> (uncertainty factor K= 1.5 m/s <sup>2</sup> )
Weight	0.6 kg
Sanding Belt Size	10 mm x 330 mm

Please note that the details and specifications contained herein are correct at the time of going to print. However Clarke International reserve the right to change specifications at any time without prior notice.

# DECLARATION OF CONFORMITY



**This is an important document and should be retained**

## DECLARATION OF CONFORMITY



We declare that this product complies with the following standards/directives:

- **89/392/EEC**
- **EN 292-2**
- **EN 60 335 - 1**
- **EN 292-2**

Description: **Air tool range**

Model No: **CAT40B**

Serial (Batch) No: **See Product Data Label**

Signed: 

**Clarke** INTERNATIONAL  
Hemnal Street, Epping, Essex CM16 4LG

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